



# Medical Education Interim Committee

August 12, 2008

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Dr. Art Vailas, President, ISU  
Dr. Mark Rudin, VP for Research, BSU  
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Steve Millard, CEO, Idaho Hospital Association  
Milford Terrell, President, State Board of Educ.  
Sue Thilo, Secretary, State Board of Educ.



## Scope & Purpose

- » Review and consider the findings of the Medical Education Study final report submitted by MGT;
- » Identify gaps in the MGT study and determine if and how those gaps should be filled;
- » Complete and validate an Idaho inventory of medical education assets existing in Idaho;
- » Evaluate future medical professional needs in Idaho; and
- » Initiate a state plan for medical education that includes expanded opportunities at both the undergraduate and graduate levels.



## Commonly Used Acronyms

- » AAMC ~ Association of American Medical Colleges
- » GME ~ Graduate Medical Education (i.e. residency)
- » HPSA ~ Health Professional Service Area
- » LCME ~ Liaison Committee on Medical Education
- » UME ~ Undergraduate Medical Education (i.e. medical school)
- » WICHE ~ Western Interstate Commission on Higher Education



## *National Trends in Meeting the Demand for More Physicians*



## Physician Shortage

- » In 2006 AAMC recommended a 30% increase in U.S. medical school enrollment by 2015.
- » Expansion should be met by increased enrollment and establishing new medical schools.
- » AAMC 2007 survey of U.S. medical schools shows 108 (86%) of the then 126 accredited schools have either already increased or plan to increase their first-year enrollment.
- » Total first-year enrollment at existing medical schools is expected to increase by 2,635 students (16%) by AY 2012.



## Projected 1<sup>st</sup> Yr Enrollment for New or Planned Medical Schools

Institution (State)	Year			
	2009	2010	2011	2012
<b>LCME Preliminary Accreditation</b>				
Paul L. Foster School of Medicine (TX)	40	60	80	80
Florida Intl U. College of Medicine (FL)	40	40	80	120
University of Central Florida (FL)	40	60	80	100
<b>LCME Candidate Schools</b>				
Touro Univ. College of Medicine (NJ)*	40	60	60	80
<b>LCME Applicant Schools</b>				
Oakland U. Beaumont Medical School (MI)		50	75	100
The Commonwealth Medical School (PA)*	60	72	84	96
Hofstra University (NY)*		30	45	60
Virginia Tech University (VA)*	40	40	40	40

\* private institution



## **New or Expanded Branch Campuses**

- » University of Arkansas
- » University of California Irvine
- » University of Colorado
- » Miami University
- » Medical College of Georgia
- » Indiana University
- » University of Kentucky
- » Michigan State University
- » Columbia University
- » Stony Brook University
- » University of North Carolina
- » East Carolina Univ. (NC)
- » University of Oklahoma
- » Oregon Health & Science University
- » Pennsylvania State Univ.
- » East Tennessee State Univ.
- » Texas Tech University
- » Texas A&M
- » University of Wisconsin



## **WICHE Region Medical School Expansion Activities**

### **ARIZONA**

- » University of Arizona College of Medicine has increased first-year student enrollment by 34 since AY 2002.
- » In partnership with Arizona State University, a four-year college of medicine program was established in Phoenix.



## **WICHE Region Medical School Expansion Activities**

### **CALIFORNIA**

- » The UC system plans to enroll 60 to 80 additional students per campus across five existing campuses.
- » Two new colleges at Merced and Riverside in planning stage.



## **WICHE Region Medical School Expansion Activities**

### **COLORADO**

- » University of Colorado School of Medicine has increased first-year student enrollment by 25 (19%) since AY 2002.
- » Grand Junction Clinical Branch Campus



## **WICHE Region Medical School Expansion Activities**

### **NEVADA**

- » The University of Nevada School of Medicine has increased first-year student enrollment by 10 (19%) since AY 2002.



## **WICHE Region Medical School Expansion Activities**

### **NEW MEXICO**

- » The University of New Mexico School of Medicine and College of Arts and Sciences developed a combined BA/MD degree program, which will increase the entering medical school class from 75 students to 100 in 2010.



## **WICHE Region Medical School Expansion Activities**

### **OREGON**

- » Oregon Health & Science University (OHSU) has increased first-year student enrollment by 19 (19%) since AY 2001.
- » Phase 2 establishes regional campus in Eugene in partnership with University of Oregon and a regional health system.



## **WICHE Region Medical School Expansion Activities**

### **UTAH**

- » The class size at the University of Utah School of Medicine has held steady at 102 for the last five years.
- » Desire to increase enrollment to 130.



## **WICHE Region Medical School Expansion Activities**

### **WASHINGTON**

- » The University of Washington enrolls 140 Washington students.
- » Includes 20 students at new first-year WWAMI site in Spokane in fall 2008.
- » Additional 76 students from WWAMI states.



## **Barriers to Expansion**

- » The capacity of existing clinical sites to train more students.
- » The space and facilities necessary to accommodate class size expansions.
- » An insufficient number of basic science and clinical faculty.
- » Funding the expansion activities.





## Physician Workforce

*Physicians in Patient Care (rate per 100,000)*

- » Idaho ~ 162 (rank 49<sup>th</sup>)
- » NW contiguous states ~ 199
- » National ~ 239



## Physician Workforce

*Physicians in Primary Care (rate per 100,000)*

- » Idaho ~ 70 (rank 48<sup>th</sup>)
- » NW contiguous states ~ 87
- » National ~ 99

*Percent of Physicians in Primary Care*

- » Idaho ~ 34.7% (rank 14<sup>th</sup>)
- » NW contiguous states ~ 34%
- » National ~ 32.5%



## Physician Workforce

*Physicians in General/Family Practice*

*(rate per 100,000)*

- » Idaho ~ 39 (rank 15<sup>th</sup>)
- » NW contiguous states ~ 39
- » National ~ 30



## Physician Workforce

- » Presence of in-state medical school not necessarily indicative of large in-state physician workforce.
- » Of bottom 10 states in patient care, primary care and General/Family practice physicians, 8 have at least one medical school.
- » Arizona, Arkansas, Idaho, Iowa, Mississippi, Nevada, Oklahoma, Texas, Utah and Wyoming



## Physician Maldistribution

- » Detail by county of Patient Care Physicians in Idaho on page 3-30 of the MGT report and tab # of your binders.
- » Health Professional Shortage Area ([HPSA](#))
- » 96.7% of the state's geographic area is designated as a HPSA in the category of primary care.
- » 31% of the state's population resides in a HPSA area
- » Additional maps:
  - » Medically Underserved Areas/Populations
  - » FTE Physicians by County
  - » FTE Physicians Serving Low Income by County



## Methods to Address Maldistribution

UME

University of Arizona Rural Health Professions Program places students at rural sites at three points in their medical education:

- » between 1st and 2nd years of medical school;
- » during a third year clerkship rotation or elective in year three; and
- » as a fourth year elective.



## Methods to Address Maldistribution

UME

UC Davis Rural Program in Medical Education

- » 5 year MD/MA program
- » Coursework focuses on rural health policy, public health, telemedicine
- » Extended clerkships and 5<sup>th</sup> year rotations completed in rural sites



## Methods to Address Maldistribution

UME

University of Colorado Rural Track

- » Years 1 & 2: rural focus seminars.
- » In the summer, between years 1 and 2, students receive a stipend and housing assistance to participate in a four-week rural preceptorship.
- » Year 3: all medical students have a four-week rural rotation.
- » Year 4: students may select rotations and electives at rural sites.
- » “Foundations of Doctoring”



## **Methods to Address Maldistribution**

UME

University of Nevada

- » Six students per semester have the opportunity to complete their internal medicine and pediatric rotation at a rural clinical site during their 3rd year.
- » Advanced Clinical Experience in Rural Health Care required for all students.



## **Methods to Address Maldistribution**

UME

New Mexico School of Medicine

- » All 1<sup>st</sup> year students are required to participate in an eight-week Practical Immersion Experience in a rural community.
- » All 4<sup>th</sup> years students are required to participate in a rural preceptorship.



## **Methods to Address Maldistribution**

UME

- » University of North Dakota School of Medicine  
Rural Opportunities in Medicine
  - » Participating students complete 7 months of their 3<sup>rd</sup> year of medical school in a rural practice site.
  - » Students earn complete credit for the Family Medicine and Surgery clerkships and half credit for the Pediatrics, Internal Medicine, and OB/GYN clerkships.



## **Methods to Address Maldistribution**

UME

Oregon Health & Science University – Rural  
Community Health Clerkship

- » A required rotation for all 3<sup>rd</sup> year students.
- » Participate in a clinical rotation in a primary care practice site at Area Health Education Centers.



## **Methods to Address Maldistribution**

UME

South Dakota School of Medicine

- » All students are required to complete two four-week family medicine clerkships in rural areas during their 2<sup>nd</sup> and 4<sup>th</sup> years.



## **Methods to Address Maldistribution**

UME

University of Washington

- » Rural/Underserved Opportunities Program is a four-week, elective immersion experience in community medicine for students between their 1<sup>st</sup> and 2<sup>nd</sup> years of medical school.
- » 3<sup>rd</sup> year students are required to participate in a family medicine six-week clerkship taught at over 25 sites in the WWAMI states. Students have the opportunity to select clinical sites in rural communities.





## Methods to Address Maldistribution

- » Arizona Medical Student Loan Program
  - » Provides student loans, repaid in service in rural and/or underserved areas of Arizona.
  - » Minimum 2 years service commitment, with 1 additional year for each year of funding received.



## Methods to Address Maldistribution

### Florida State University

- » Prescriptive enabling legislation:
  - » *“There is hereby established ... the Florida State University College of Medicine, with a principal focus on recruiting and training medical professionals to meet the primary health care needs of the state, especially the needs of the state’s elderly, rural, minority and other underserved citizens.”*
  - » *“During the third and fourth years, the curriculum shall follow a distributed community-based model with a special focus on rural health.”*





## **Return Rates/Retention National Trends**

### **Predictors of Physician Practice Location**

- » 47% of active physicians who graduate from a public medical school, practice in the same state.
- » 47.2% of active physicians who complete GME in state, remain to practice in the same state. In Idaho it's 55.3%.
- » 66% of active physicians who graduate from medical school and complete GME in state, practice in the same state.



## **Return Rates/Retention UME Graduates**

- » WWAMI
  - » 50% of all Idaho WWAMI graduates are practicing or have practiced in Idaho
  - » 70% of all WWAMI graduates are practicing or have practiced in Idaho
- » WICHE ~ 5 year return rates (1997-2001)
  - » Montana 10 of 26 (38%)
  - » Wyoming 6 of 30 (20%)



## **Return Rates/Retention GME Graduates**

- » Family Medicine Residency of Idaho
  - » 124 of 221 or 56% of graduates are currently practicing in Idaho. ([map](#))
- » ISU Family Medicine Residency
  - » 33 of 65 or 51% of graduates are practicing or have practiced in Idaho ([map](#))

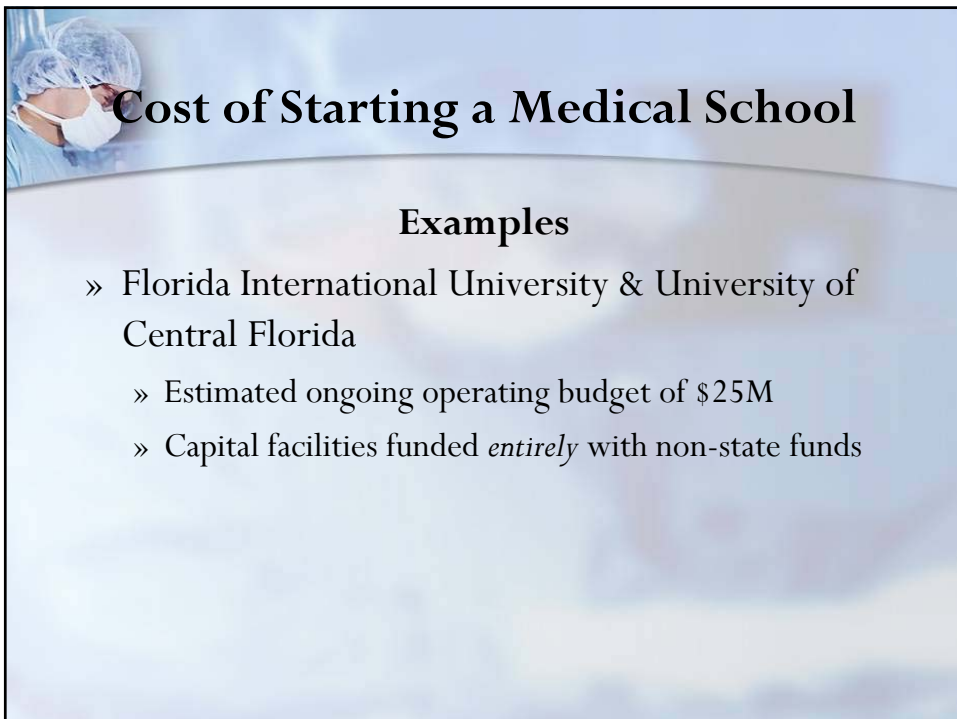


## **Payback/Service Requirements**

- » Alaska views state subsidy for WWAMI as a loan which must be repaid one of two ways:
  - » Direct repayment plus interest
  - » 3 years of in-state practice in rural areas, or 5 years in-state practice in urban areas
- » Wyoming also requires repayment plus interest or 3 years service for WWAMI participants.



## *Cost of a Medical School*



## **Cost of Starting a Medical School**

### **Examples**

- » Florida International University & University of Central Florida
  - » Estimated ongoing operating budget of \$25M
  - » Capital facilities funded *entirely* with non-state funds



## **Cost of Expanding Medical Education**

- » WWAMI – Spokane track
  - » 20 first year seats beginning AY 2008-09
  - » \$6M biennium budget
    - » \$2M operating (ongoing)
    - » \$1.5M recruitment and start-up packages for 4 research faculty and director
    - » \$1.5M equipment, cadavers, etc. (one-time)



## **Cost of Expanding Medical Education**

### **WWAMI Seats**

- » Year two of 4-year phase-in to 20 seats per year.
- » WWAMI has formally submitted its support for expanding Idaho's class size.
- » Alaska doubled class size from 10 to 20 in 2007
- » Montana requesting to expand from 20 to 30 in 2010.
- » Wyoming increased from 10 to 16 over 3 years.



## **Cost of Expanding Medical Education**

### **WICHE Seats**

- » The 2008-2009 state support fee for medicine exchange program: \$27,400
- » 17 participating schools (including UofU)




## ***Accreditation***



## Accreditation

**Liaison Committee on Medical Education**

- » **Step 1: “Applicant School” status**
  - » **meet basic eligibility requirements for application for accreditation**



## Accreditation

Schools with Applicant School Status	
School	Location
Scripps School of Medicine	La Jolla, CA
Oakland University Beaumont Medical School	Rochester, MI
Hofstra University School of Medicine	Hempstead, NY
Virginia Tech Carilion School of Medicine	Roanoke, VA



## Accreditation

### **Liaison Committee on Medical Education**

- » **Step 2: “Candidate School” status**
  - » **Submit self-study documents with favorable review by LCME**
  - » **Approval for LCME site visit**



## Accreditation

<b>Schools with Candidate School Status</b>	
<b>School</b>	<b>Location</b>
Touro University College of Medicine	Hackensack, NJ
The Commonwealth Medical College	Scranton, PA




# Accreditation

**Liaison Committee on Medical Education**

**Step 3: “Preliminary Accreditation” status**

- » LCME site visit completed
- » LCME expectations met
- » LCME votes to grant preliminary accreditation



# Accreditation

Schools with Preliminary Accreditation Status	
School	Location
Florida International Univ. College of Medicine	Miami, FL
Univ. of Central Florida College of Medicine	Orlando, FL
Texas Tech University Foster School of Medicine	El Paso, TX





## **Accreditation**

### **Liaison Committee on Medical Education**

- » **Step 4: “Provisional Accreditation” status**
  - » LCME completes survey to review progress toward implementation of educational program and status of planning for later stages of program.
  - » LCME votes to grant provisional accreditation for the program.



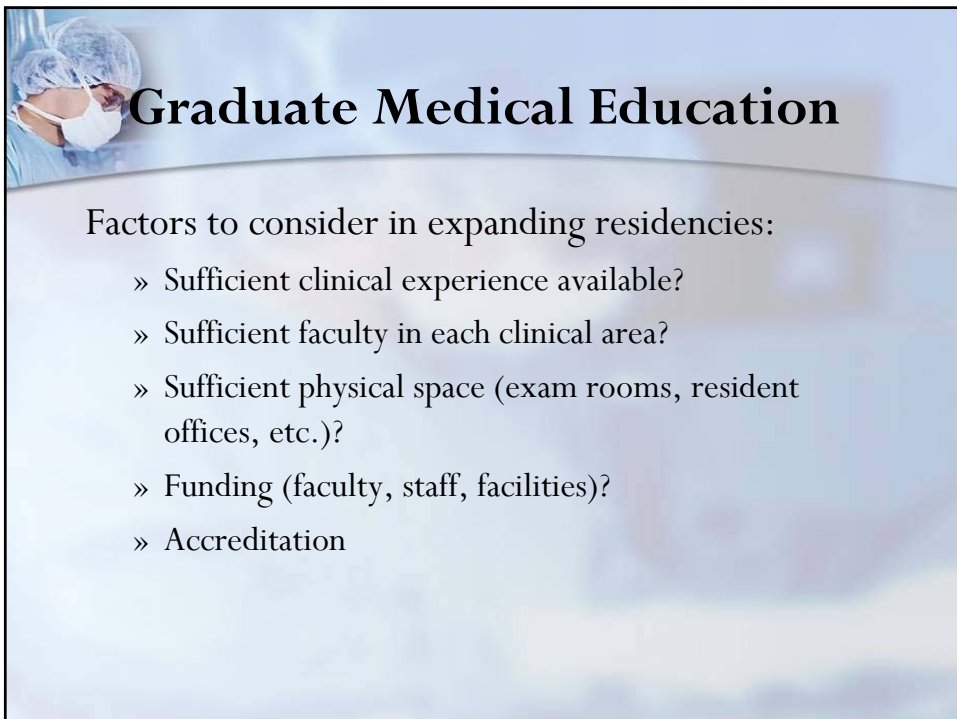
## **Accreditation**

### **Liaison Committee on Education**

- » **Step 5: “Full Accreditation” status**



## *Expanding Graduate Medical Education*



## **Graduate Medical Education**

Factors to consider in expanding residencies:

- » Sufficient clinical experience available?
- » Sufficient faculty in each clinical area?
- » Sufficient physical space (exam rooms, resident offices, etc.)?
- » Funding (faculty, staff, facilities)?
- » Accreditation



## Graduate Medical Education

- » Family Medicine Residency of Idaho (Boise)
  - » New Rural Training Track in Twin Falls/Jerome
  - » Rural rotation enhancement
  - » Rural family medicine technology
- » ISU Family Medicine Residency (Pocatello)
  - » New Rural Training Track in Rexburg



## Graduate Medical Education

### Family Medicine Residency of Idaho (Boise)

- » FY 2010 request: \$123,900 to expand rural track residency:
  - » One resident at newly created Magic Valley Rural Training Track (\$34,000)
  - » Expand Boise program (with rural rotations) by two residents (\$68,000)
  - » Administrative support to grow the Magic Valley and Caldwell training tracks (\$21,900)

Revised 9/10/2008



## Graduate Medical Education

### ISU Family Medicine Residency (Pocatello)

- » FY 2010 request
  - » \$140,000 to add two residency positions
  - » Rural Training Track in Rexburg



## Graduate Medical Education

### Idaho Advanced Clinician Track

- » Jointly operated by Boise VA, Saint Als and St. Luke's in conjunction with UW Psychiatry Residency Program
- » First state funding received in FY 2008
- » Three residents per year
  - » 3 year track: 12 mths in Seattle, 24 mths in Boise
  - » 4 year track: 24 mths in Seattle, 24 mths in Boise

